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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

MAIER, CHRISTOPHER J

ART UNIT	PAPER NUMBER
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2675

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11

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/420,787

Applicant(s)

DANIELS, TED

Examiner

Christopher J. Maier

Art Unit

2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 November 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 and 6-47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-17, 19-29 and 31-47 is/are rejected.
- 7) ☒ Claim(s) 18 and 30 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-4, 10-15, 21-24, 35-36, 38, 41, 43, 45 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lucente et al (U.S. Patent No. 5,287,245) in view of Klein et al (U.S. Patent No. 6,205,021 B1).

As to claim 1, Lucente discloses a removable, wireless keyboard in figure 5, item 18 and column 5, lines 22-28.

Lucente does not disclose a portable personal computer comprising a base having a controller for controlling operations thereof; a removable wireless input device for communicating with the controller in the base through a signal interface when mounted into the base or through a wireless connection when removed from the base; or that the input device has an upper surface, a lower surface and at least one side surface with at least one of the lower surface and the at least one side surface being received in the recess when the input device is mounted in the base in figure 2.

Klein discloses a portable personal computer comprising a base having a controller for controlling operations thereof in figure 2 and column 1, lines 24-63. Klein

further discloses a display attached to the base in figure 2, item 81. Klein also discloses a removable wireless input device for communicating with the controller in the base through a signal interface when mounted into the base or through a wireless connection when removed from the base in figure 2, item 51 and column 2, lines 24-63. Klein further discloses that the input device has an upper surface, a lower surface and at least one side surface with at least one of the lower surface and the at least one side surface being received in the recess when the input device is mounted in the base in figure 2.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 2, Lucente does not disclose discloses that the base has at least one infrared device for receiving infrared signals.

Klein discloses that the base has at least one infrared device for receiving infrared signals in figure 2, item 74 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 3, Lucente does not disclose that the input device has at least one infrared device for transmitting infrared signals.

Klein discloses that the input device has at least one infrared device for transmitting infrared signals in figure 2, item 74 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 4, Lucente does not disclose that the recess is sized to receive both the lower surface and the at least one side surface of the wireless input device

Klein discloses that the recess is sized to receive both the lower surface and the at least one side surface of the wireless input device in figure 2.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 6, Lucente does not disclose that the wireless keyboard includes a pointing device.

Klein discloses that the wireless input device includes a pointing device in figure 2, item 51 and column 2, lines 45-63.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 7, Lucente does not disclose that the wireless keyboard includes a pointing device functions as a computer track ball apparatus.

Klein discloses that the pointing device functions as a computer track ball apparatus in figure 4, item 58 and column 2, lines 45-63.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 8, Lucente does not disclose that the wireless keyboard includes a pointing device that functions as a computer touch pad apparatus

Klein discloses that the pointing device functions as a computer touch pad apparatus in figure 2, item 51 and column 2, lines 45-63.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for

portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 10, Lucente does not disclose that the signal interface includes an infrared connection.

Klein discloses that the signal interface includes an infrared connection in figure 2, items 73-74 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 11, Lucente does not disclose that the signal interface includes a radio frequency connection.

Klein discloses that the signal interface includes a radio frequency connection in column 2, lines 45-63.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 12, Lucente does not disclose that the wireless keyboard further includes an infrared transducer

Klein discloses that the removable wireless input device further includes an infrared transducer in figure 2, item 73 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 13, Lucente does not disclose that the wireless keyboard includes least one infrared device for at least transmitting infrared signals

Klein discloses that the removable wireless input device includes least one infrared device for at least transmitting infrared signals in figure 2, item 73 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 14, Lucente does not disclose that the removable wireless input device has at least first, second and third sides perpendicular to the upper and lower surfaces, and at least first and second infrared devices for at least transmitting infrared signals, the first and second infrared devices located on at least two of the first, second, and third sides of the removable wireless input device.

Klein discloses that the removable wireless input device has at least first, second and third sides perpendicular to the upper and lower surfaces, and at least first and second infrared devices for at least transmitting infrared signals, the first and second infrared devices located on at least two of the first, second, and third sides of the removable wireless input device in figure 6, item 73, and column 8, lines 27-55.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 15, Lucente does not disclose that the wireless keyboard includes a radio frequency transmitter and the base includes a radio frequency receiver.

Klein discloses that the removable wireless input device includes a radio frequency transmitter and the base includes a radio frequency receiver in figure 2, items 73-74 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 21, Lucente does not disclose that there is at least one retaining device for securing the removable wireless input device to the base.

Klein discloses that there is at least one retaining device for securing the removable wireless input device to the base in column 5, lines 25-45.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 22, Lucente does not disclose that at least one retaining device is a spring ball bearing.

Klein discloses that at least one retaining device is a spring ball bearing in figure 5, items 38 and column 8, lines 3-19.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 23, Lucente does not disclose that at least one retaining device includes a tab and a slot, one of the tab and slot located on one of the removable wireless input device and the base and the other of the tab and the slot located on the other of the removable wireless input device and the base, wherein the tab fits into the slot to secure the removable wireless device to the base

Klein discloses that at least one retaining device includes a tab and a slot, one of the tab and slot located on one of the removable wireless input device and the base and the other of the tab and the slot located on the other of the removable wireless input device and the base, wherein the tab fits into the slot to secure the removable wireless device to the base in figure 5 and column 8, lines 2-19.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 24, Lucente does not disclose an ejector mechanism for removing the removable wireless input device when the removable wireless input device is mounted in the base.

Klein discloses an ejector mechanism for removing the removable wireless input device when the removable wireless input device is mounted in the base in figure 5 and column 8, lines 2-19.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 35, Lucente does not disclose a method of controlling a portable computer with an input device, the method comprising operating a controller with a base of the computer with an input device while at least one of an upper surface and a side surface of the input device is received in a recess of the base, the input device generating operational signals to the controller when disposed at least partially within the base as well as when physically separated from the base.

Klein discloses a method of controlling a portable computer with an input device, the method comprising operating a controller with a base of the computer with an input device while at least one of an upper surface and a side surface of the input device is received in a recess of the base, the input device generating operational signals to the controller when disposed at least partially within the base as well as when physically separated from the base in figure 2 and column 1, lines 24-63.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 36, Lucente does not disclose the act of transmitting the operational signals as light signals to the base when the input device is physically separated from the base.

Klein discloses the act of transmitting the operational signals as light signals to the base when the input device is physically separated from the base in figure 2, item 74 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 38, Lucente does not disclose that the transmitting the operational signals as light signals is accomplished by transmitting infrared signals.

Klein discloses that the transmitting the operational signals as light signals is accomplished by transmitting infrared signals in figure 2, item 74 and column 6, lines 42-62.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63

As to claim 41, Lucente does not disclose the act of physically connecting the input device with the base

Klein discloses the act of physically connecting the input device with the base in column 5, lines 25-45.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 43, Lucente does not disclose the act of physically separating the input device with the base.

Klein discloses the act of physically separating the input device with the base in column 5, lines 25-45.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 45, Lucente does not disclose a portable personal computer with a base having a controller for controlling operations thereof; a display attached to the base; a removable wireless input device for communicating with the controller in the base through a signal interface when mounted into the base or through a wireless connection when removed from the base; or that the signal interface includes a hardwired connection.

Klein discloses a portable personal computer with a base having a controller for controlling operations thereof in figure 2 and column 1, lines 24-63. Klein further

discloses a display attached to the base in figure 2, item 81. Klein also discloses a removable wireless input device for communicating with the controller in the base through a signal interface when mounted into the base or through a wireless connection when removed from the base in figure 2, item 51 and column 2, lines 24-63. Klein further discloses that the signal interface includes a hardwired connection in figure 1, item 71 and column 4, lines 61-66.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 47, Lucente does not disclose a method of controlling a portable computer with an input device, the method comprising operating a controller within a base of the computer with an input device which generates operational signals to the controller when connected with the base as well as when physically separated from the base; or that the transmission of the operational signals to the base takes place over a hardwired connection when the input device is connected to the base.

Klein discloses a method of controlling a portable computer with an input device, the method comprising operating a controller within a base of the computer with an input device which generates operational signals to the controller when connected with the base as well as when physically separated from the base in figure 2, items 51 and 81, column 1, lines 24-63, and column 2, lines 24-63. Further, Klein discloses that the

transmission of the operational signals to the base takes place over a hardwired connection when the input device is connected to the base in 1, item 71 and column 4, lines 61-66.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

2. Claims 9, 16, 25-29, 31-34, 37, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lucente and Klein in further view of Anderson et al (U.S. Patent No. 6,104,604).

As to Lucente and Klein's disclosures, see above rejections.

As to claims 9 and 37, as dependent on claims 1 and 35, respectively, neither Klein nor Lucente disclose the transmission of the operational signals to the base over a hardwired connection when the keyboard is connected with the base.

Anderson discloses a first mating connector on a wireless keyboard and a second mating connector providing a hardwired connection in figure 4, items 140 and 240, and column 4, lines 1-10.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the wireless keyboard device of Klein and Lucente with the wireless keyboard connection device of Anderson in order to consolidate parts by combining the mating connectors with data transmission and in order to provide better

transmission quality than solely infrared transmission when the keyboard is connected to the housing.

As to claim 16, as dependent on claim 1, Klein discloses a first mating connector in a wireless input device in figure 5, item 63, and a second mating connector in the base of the unit in figure 5, item 38.

Neither Klein nor Lucente disclose that the mating connectors provide a hardwired connection from the wireless keyboard to the base.

Anderson discloses a first mating connector on a wireless keyboard and a second mating connector providing a hardwired connection in figure 4, items 140 and 240, and column 4, lines 1-10.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the wireless keyboard device of Klein and Lucente with the wireless keyboard connection device of Anderson in order to consolidate parts by combining the mating connectors with data transmission and in order to provide better transmission quality than solely infrared transmission when the keyboard is connected to the housing.

As to claim 25, neither Klein nor Lucente disclose that the wireless keyboard is hardwired when connected to the base.

Anderson discloses a first mating connector on a wireless keyboard and a second mating connector providing a hardwired connection in figure 4, items 140 and 240, and column 4, lines 1-10.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the wireless keyboard device of Klein and Lucente with the wireless keyboard connection device of Anderson in order to consolidate parts by combining the mating connectors with data transmission and in order to provide better transmission quality than solely infrared transmission when the keyboard is connected to the housing.

As to claim 26, Klein discloses that the input device has at least one infrared device for transmitting infrared signals in figure 2, item 74 and column 6, lines 42-62.

As to claim 27, Klein discloses that the wireless input device has an upper surface and a lower surface, and at least first, second and third sides perpendicular to the upper and lower

As to claim 28, Klein discloses a first mating connector in a wireless input device in figure 5, item 63, and a second mating connector in the base of the unit in figure 5, item 38.

Neither Klein nor Lucente disclose that the mating connectors provide a hardwired connection from the wireless keyboard to the base.

Anderson discloses a first mating connector on a wireless keyboard and a second mating connector providing a hardwired connection in figure 4, items 140 and 240, and column 4, lines 1-10.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the wireless keyboard device of Klein and Lucente with the wireless keyboard connection device of Anderson in order to consolidate parts by

combining the mating connectors with data transmission and in order to provide better transmission quality than solely infrared transmission when the keyboard is connected to the housing.

As to claim 33, Klein discloses that there is at least one retaining device for securing the removable wireless input device to the base in column 5, lines 25-45.

Klein does not disclose that the wireless input device is a keyboard.

Lucente discloses a removable, wireless keyboard in figure 5, item 18 and column 5, lines 22-28.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the removable, wireless input device of Klein with the removable, wireless keyboard of Lucente because both deal with input devices for portable computers and the removable keyboard for a portable keyboard allows it to be positioned in a more ergonomic manner, Lucente, column 1, lines 45-63.

As to claim 34, Klein discloses that at least one retaining device is a spring ball bearing in figure 5, items 38 and column 8, lines 3-19.

As to claim 46, Klein discloses a portable personal computer with a base having a controller for controlling operations thereof in figure 2 and column 1, lines 24-63. Klein further discloses a display attached to the base in figure 2, item 81. Klein also discloses a removable wireless input device for communicating with the controller in the base through a signal interface when mounted into the base or through a wireless connection when removed from the base in figure 2, item 51 and column 2, lines 24-63. Klein further discloses that the removable wireless input device has a first mating

connector and a the base has a second mating connector, wherein the first mating connector and the second mating connector provide a hardwired connection when the removable wireless input device is mounted into the base.

Neither Klein nor Lucente disclose that the mating connectors provide a hardwired connection from the wireless keyboard to the base.

Anderson discloses a first mating connector on a wireless keyboard and a second mating connector providing a hardwired connection in figure 4, items 140 and 240, and column 4, lines 1-10.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the wireless keyboard device of Klein and Lucente with the wireless keyboard connection device of Anderson in order to consolidate parts by combining the mating connectors with data transmission and in order to provide better transmission quality than solely infrared transmission when the keyboard is connected to the housing.

3. Claims 17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein and Lucente in view of Kimura et al (U.S. Patent No. 6,108,716).

As to Lucente and Klein's disclosures, see above rejections.

As to claim 17, neither Klein nor Lucente disclose that the removable wireless input device has a power supply independent of the base.

Kimura discloses that the removable wireless input device has a power supply independent of the base in column 13, lines 36-55.

It would have been obvious to one having ordinary skill in the art at the time of the invention to include a power supply independent of the base as in Kimura with the wireless input of Klein in order to allow the wireless input to function for a period of time after being removed from the base.

As to claim 19, Klein does not disclose that the power supply comprises at least one battery.

Kimura discloses that the power supply comprises at least one battery in column 13, lines 36-55.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine a power supply independent of the base comprising at least one battery as in Kimura with the wireless input unit of Klein because batteries are well known as a portable source of power in the art.

As to claim 20, Klein does not disclose that at least one battery is charged by the base when the removable wireless input device is mounted into the base.

Kimura discloses that at least one battery is charged by the base when the removable wireless input device is mounted into the base in column 12, lines 66-67 and column 13, lines 1-25.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the base charging at least one battery mounted in the wireless input unit of Kimura with the wireless input unit of Klein in order to give the wireless input unit battery power combined with the capability of being recharged when the batteries lose power.

Art Unit: 2675

4. Claims 29 and 31-32, as dependent on claims 25, 29 and 31, respectively, are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein, Lucente and Anderson in view of Kimura et al.

As to Klein, Lucente and Anderson's disclosures, see above rejections.

As to claim 29, neither Klein, Lucente nor Anderson discloses that the removable wireless input device has a power supply independent of the base.

Kimura discloses that the removable wireless input device has a power supply independent of the base in column 13, lines 36-55.

It would have been obvious to one having ordinary skill in the art at the time of the invention to include a power supply independent of the base as in Kimura with the wireless input of Klein in order to allow the wireless input to function for a period of time after being removed from the base.

As to claim 31, neither Klein, Lucente nor Anderson discloses that the power supply comprises at least one battery.

Kimura discloses that the power supply comprises at least one battery in column 13, lines 36-55.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine a power supply independent of the base comprising at least one battery as in Kimura with the wireless input unit of Klein because batteries are well known as a portable source of power in the art.

As to claim 32, neither Klein, Lucente nor Anderson discloses that at least one battery is charged by the base when the removable wireless input device is mounted into the base.

Kimura discloses that at least one battery is charged by the base when the removable wireless input device is mounted into the base in column 12, lines 66-67 and column 13, lines 1-25.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the base charging at least one battery mounted in the wireless input unit of Kimura with the wireless input unit of Klein in order to give the wireless input unit battery power combined with the capability of being recharged when the batteries lose power.

5. Claims 39-40, as dependent on claims 35 and 39, respectively, are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein and Lucente in view of Kimura et al.

As to Klein and Lucente's disclosures, see above rejections.

As to claim 39, neither Klein nor Lucente disclose the act of supplying an independent power source to the input device.

Kimura discloses the act of supplying an independent power source to the input device in column 13, lines 36-55.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine a power supply independent of the base comprising at least

Art Unit: 2675

one battery as in Kimura with the wireless input unit of Klein because batteries are well known as a portable source of power in the art.

As to claim 40, neither Klein nor Lucente disclose the act of charging the independent power source when the input device is connected with the base.

Kimura discloses the act of charging the independent power source when the input device is connected with the base in column 12, lines 66-67 and column 13, lines 1-25.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the base charging at least one battery mounted in the wireless input unit of Kimura with the wireless input unit of Klein in order to give the wireless input unit battery power combined with the capability of being recharged when the batteries lose power.

6. Claims 42 and 44, as dependent on claims 41 and 43, respectively, are rejected under 35 U.S.C. 103(a) as being unpatentable over Lucente and Klein in view of Kimura et al.

As to Klein and Lucente's disclosures, see above rejections.

As to claim 42, neither Klein nor Lucente disclose that that the act of physically connecting the input device with the base includes signaling the computer that the input device is connected with the base.

Kimura discloses that that the act of physically connecting the input device with the base includes signaling the computer that the input device is connected with the base in column 10, lines 25-43.

Art Unit: 2675

It would have been obvious to one having ordinary skill in the art at the time of the invention to include the connection-signaling device of Kimura with the input device of Klein in order to allow the computer and user to know when the input device is fully connected, ensuring that the input device will not get misplaced.

As to claim 44, neither Klein nor Lucente disclose that that the act of physically connecting the input device with the base includes signaling the computer that the input device is physically separated from the base.

Kimura discloses that that the act of physically connecting the input device with the base includes signaling the computer that the input device is physically separated from the base in column 10, lines 25-43.

It would have been obvious to one having ordinary skill in the art at the time of the invention to include the separation-signaling device of Kimura with the input device of Klein in order to allow the computer and user to know when the input device is fully connected, ensuring that the input device will not get misplaced.

Allowable Subject Matter

7. Claims 18 and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2675

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Maier, whose telephone number is (703) 605-1213, and whose normal working hours are 7:30AM – 4:00PM ET, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Saras can be reached at (703) 305-9720.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Art Unit: 2675

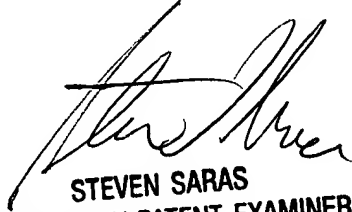
or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

cm
cjm

Chris Maier


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